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United States Army

Redstone Technical Test Center (RTTC)







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Ranges, Roads and Facilities

Test Area 1, R&D Flight Range and Facilities

Test Area 1 is dedicated to research and development testing for advanced technology hardware and project-managed systems. Schedules are flexible and are optimized to best utilize facilities and meet the requirements of the customer. Test data collected include velocity, trajectory, launcher recoil, noise, sound pressure, pitch, roll, altitude, multi-warhead firing interval, penetration, and behind-target penetration. Other necessary data can be collected by RTTC or by arrangements with other organizations. Shown below are some of the major resources and capabilities at Test Area 1.



Test Area 1 range targets

Overview

Ranges, Road
Courses & Fac.

High Performance
Computer (HPC)

Unique Equipment
& Tools

Fiber Optic
Networks

Personnel/Tech
Expertise

- Located on approximately 8,000 acres)
- Main Flight Test Range (8.5 km)
- Small Rocket's Range (5.0 km)
- Sled Test Tracks (2 each, 1,200 and 1,900 ft. in length)
- Warhead Static Test Facility – Shaped charge warhead detonation facility
- 2 Fully instrumented blockhouses with numerous

- firing positions
- 155 mm Howitzer for High G acceleration tests
 - IR signature
 - Telemetry missile capabilities
 - Tactical, simulated, and other targets (i.e. domestic and foreign, manned and remote control)
 - Obscurants (fog oil, diesel, and phosphorus)
 - High resolution terrain database maps
 - Fixed film and Cinetheodolite tracking cameras
 - Full-video editing facility
 - Laser and Doppler radar for tracking
 - GPS data
 - Telemetry reception and hard-line instrumentation
 - Secure explosive storage facility
 - Environmental conditioning chambers, both lab and field (portable)



Nighttime javelin firing



Missile hitting range target



Sled track at Test Area 1



Warhead testing



Test Area 1 range control room



Mobile receiving station

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